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BULLETIN OF INFORMATION

HOWARD
UNIVERSITY

— WASHINGTON, D. C. —



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FEBRUARY, 1920

HOWARD UNIVERSITY RECORD

This Bulletin is published to supply the demand for information concerning Howard University, which has recently been so great as to exhaust the 1918-1919 edition of the catalogue, although the largest in the history of the University.

For *any further information* address

THE REGISTRAR,

Howard University,

Washington, D. C.

VOL. XIV

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BULLETIN OF INFORMATION

Howard University



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HOWARD UNIVERSITY RECORD

WASHINGTON, D. C.

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ORGANIZATION

The University is organized in the following divisions:

- The Junior College.
- The School of Liberal Arts.
- The School of Education.
- The School of Journalism.
- The School of Commerce and Finance.
- The School of Applied Science.
- The School of General Service.
- The School of Music.
- The School of Religion.
- The School of Law.
- The School of Medicine.

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Director School of Music, LULU V. CHILDERS.

Dean School of Religion, D. BUTLER PRATT.

Dean School of Law, BENJAMIN F. LEIGHTON.

Dean School of Medicine, EDWARD A. BALLOCH.

Dean of Men, EDWARD L. PARKS.

Acting Dean of Women, HELEN H. TUCK,

young men. The building has a reception parlor and music and sewing rooms. No effort is spared to give it a home-like atmosphere.

BUILDING OF APPLIED SCIENCE

The Hall of Applied Science is of brick with reinforced concrete floors, and is one hundred by forty feet and three stories high. The first floor is occupied by engineering laboratories; the second floor by the department of woodworking; and the third floor is used for lecture rooms, the domestic arts department, a drafting room and domestic science laboratory.

THE MEDICAL BUILDING

The Medical School building is a large structure of four stories and basement. It contains the lecture rooms and the anatomic, physiologic, chemic, histologic, bacteriologic, pathologic, dental and pharmacal laboratories, all of which are modern and thoroughly equipped. The amphitheatre accommodates several hundred. The building has a desirable location within a few steps of Freedmen's Hospital.

THE MEMORIAL CHAPEL

The Rankin Memorial Chapel, which stands at the entrance to the University grounds, is built of brick and brown stone and is an example of Gothic architecture. It is largely covered with ivy, which adds to its attractiveness. The north end contains a triple stained-glass window, representing the Landing of the Pilgrims, the House at Scrooby, and the City of Leyden, Holland, in memory of Deacon S. H. Stickney, of Baltimore. At the south end is the stained-glass window of Sir Galahad, erected by teachers and students in memory of the late Professor Charles Chauveau Cook. The Chapel stands as a memorial to Andrew E. Rankin, the brother of the late President Rankin, and the deceased husband of a generous donor, Mrs. H. T. Cushman, of Boston. Anniversaries, University lectures, daily chapel and Sunday vesper services are held here.

THE LAW BUILDING

The Law School building is situated on Judiciary Square, contiguous to the courthouses and courts. Besides the offices of the School, it contains the large William M. Evarts lecture hall, built in chapel form, two stories high, and the extensive libraries of the school.

THE UNIVERSITY LIBRARY.

The Carnegie Library, a building of classic design, fronting on the campus, is over one hundred feet long and thirty-five feet deep, exclusive of the wing containing the stack room. It has a capacity of from 60,000 to 70,000 volumes, two-thirds of which will be housed eventually in the stack, which is in four tiers and is made entirely of steel and glass. On the first floor two reading rooms open off the circulation room. On the second floor are the special reading rooms of the School of Religion, the offices of the President of the University, the Board Room, and two rooms used for seminars. In the basement there is an assembly hall of convenient size for student meetings.

The Library is intended for general reference and study in all departments, and aims also to supply the students with good general reading. It is open from 8 A. M. to 8:30 P. M. on week days while the University is in session. It comprises over forty thousand bound volumes and more than twenty thousand pamphlets. In the valuable library given by Dr. J. E. Moorland and in the Lewis Tappan anti-slavery library, there is the beginning of a special collection of books by and about Negroes. It is the purpose of the University to add to this collection, and gifts to it are solicited. The Library is being increased constantly by purchase and gift, and more than five thousand dollars is expended annually for books and administration. The reading rooms are provided with about 150 newspapers and periodicals.

The School of Law has a branch library in the Law Building on Fifth Street, which contains about 3,500 volumes of legal reports, treatises and textbooks. For the convenience of the students of the School of Medicine, another branch has been established in the Medical Building.

Through the generosity of the Librarian of Congress and of the Public Library of the District of Columbia, the resources of those libraries are placed at our disposal in the most convenient way, and deliveries are made at our building on request. This addition, as it were, to our equipment of the treasures of one of the best-selected public libraries in the country and of the greatest reference library in the two Americas is an advantage to students and teachers alike, which can hardly be estimated at its full value.

STUDENT SELF-HELP

Although Howard University offers a number of places in the aggregate for students to earn in part their way in college, most of these positions are engaged beforehand by those who have already attended. Many of our students are engaged outside of the University in Washington, in such work as waiting in hotels, boarding houses and restaurants, caring for houses, furnaces, walks and yards, running elevators, watching, etc. An employment bureau is maintained in the office of the Secretary of the Y. M. C. A. to assist in finding work. Applications should be sent to the Secretary of the Y. M. C. A., Howard University, Washington, D. C., with as full a statement as practicable of what work one has done and what one can do best. It is not wise for any student who wants to earn part of his expenses to come to the University with less than \$100 to pay his charges and his expenses till he can get work. At best, except in rare cases, a student during the college session can earn only part of his expenses. He usually cannot get work till he is on the ground, and whether he gets work at all depends largely upon his energy and enterprise. It may be some time before he can get suitable work.

The information above applies to young men. There are only a very few positions in Miner Hall for young women to earn part of their expenses. These are engaged long in advance. There is practically no opportunity for young women to earn part of their expenses by working in the city, except with personal friends.

HEALTH AND PHYSICAL EDUCATION.

The health of students in the University is given consideration. All students except those of the Professional Schools are required to take physical training and exercise in the gymnasium, under the physical director. Physical training with the use of the gymnasium is optional for professional students. The fee for those who take it is \$2 for the year in addition to the athletic fee of \$3.

ATHLETICS

There is an athletic field upon which the students engage in all outdoor exercises, such as football, baseball, cricket and field events. The track is about one-fifth mile in length, and has a 120-yard

straightaway. The grandstand runs parallel to the straightaway, thus giving a good view of the start and finish of races.

Candidates for places on the various athletic teams will be required to take a physical examination and give evidence of fitness by making strength tests. Students not candidates for teams will be required to take a physical examination for the purpose of ascertaining defects which may be overcome by corrective physical training.

PRIZES

J. EDWARD BARRY PRIZE IN PUBLIC READING

Hon. J. Edward Barry, ex-Mayor of Cambridge, Mass., offers a prize of \$10 for excellence in public reading.

PRIZE IN ORATORY

A good friend in Boston, Mass., offers a prize of \$10 for excellence in oratory.

ALPHA KAPPA ALPHA SORORITY PRIZE

The Alpha Kappa Alpha Sorority offers an annual prize of \$10 to the young woman in the School of Liberal Arts who is graduated with the highest average scholarship, which must be not lower than *cum laude* grade and must cover four years of work at Howard University for the degree of A. B. or B. S.

THE JAMES M. GREGORY DEBATING PRIZE

The annual income from the James M. Gregory Debating Fund of \$100 constitutes a prize to be awarded to the best individual debater in the trials for the University debating teams.

EXPENSES

The following list of expenses includes the various items for which charge is made by the University, but it does not include such items as laundry, books, and general expenses of a miscellaneous character, all of which are variable and more or less determined by the student himself. Laundry, tailoring, and similar expenses will range from \$2 to \$4 per month. Books, paper, and similar articles will cost \$6 per quarter and upward, depending on the courses taken.

All bills for the quarter are due and payable in advance. To pay the quarter's fee and for one month's board, books, stationery, laundry, and other personal expenses, the student should have at least \$65 on his arrival. The music student needs more, according to the amount of music taken.

Room rent and fees will not be refunded if a student leaves or if his relation to the University is dissolved from any cause except personal illness, in which case a physician's certificate will be required.

Table board will be furnished in the University Dining Hall at cost. No student is allowed to board himself in his room, and all who room in Clark Hall or Miner Hall must take their meals in the University dining room, unless excused. The rooms in the dormitories are furnished with bedstead, mattress, chairs, tables and book-case, and in the men's dormitory with sheets and pillow-cases. All other furnishings, such as towels, blankets and pillows, and in the young women's dormitory sheets and pillow-cases, must be supplied by the students. This must not be forgotten, nor should the newcomer overlook the advisability of reaching the University early in the day, so that his room may be in order for use the first night.

Applications for rooms in either dormitory are receivable during any quarter for the next succeeding quarter. Such applications should be made as soon after this date as practicable, as reservations will be made in the order in which the applications are received, but no reservation will be made unless there is an advance payment of \$12, one quarter's room rent. This will not be refunded except in case of non-attendance on account of personal illness and then only when the room space can be rented to someone else in case notice is given later.

The young women of Miner Hall are under the charge of a competent preceptress. The authorities of the University advise that all young women whose homes are not in Washington should room in Miner Hall. They must refuse to assume responsibility for any young woman who lives in the city and goes back and forth, without proper chaperon, for classes.

A room deposit of one dollar to insure care of furniture and for safe return of key, etc., is required. Room rent and board for shorter periods will be charged for at a higher rate than the prices named.

The deposit for breakage in the chemical courses is to be made with the Treasurer of the University before the student is admitted

to the laboratory. When a student has exhausted his deposit, he is required to make another deposit to cover future breakage. At the close of the quarter any balance of the deposit above the breakage is returned to him.

The charges for music lessons and use of piano are payable by the quarter in advance. All students are required to take two lessons per week, except by express permission of the Director. No student is allowed to drop music within a quarter. No deduction will be made for lessons that are missed on account of holidays or for any cause, except sickness, and then only on a physician's certificate and when lessons are missed consecutively for a month or more. Notice of such sickness should be sent to the Director of the School of Music as soon as it occurs.

FEES PER QUARTER

IN THE SCHOOL OF LIBERAL ARTS, THE SCHOOL OF EDUCATION, THE SCHOOL OF JOURNALISM, THE SCHOOL OF COMMERCE AND FINANCE, THE SCHOOL OF APPLIED SCIENCE, THE JUNIOR COLLEGE AND THE LIBRARY TRAINING CLASS.

Matriculation (paid only once on entering)-----	\$5.00
Incidental fee -----	15.00
Laboratory fee, chemistry courses, each-----	2.50
Laboratory deposit, chemistry courses, for breakage, each-----	5.00
Room rent, including steam heat and light-----	12.00
Room deposit, to be refunded at end of occupation of room, if room and furnishings are in proper order-----	1.00
Linen and laundry for same, for beds in young men's dormitory-----	2.00
All students taking laboratory courses are required to pay for breakage and waste.	

The incidental fee of \$15 applies to those taking two courses or three courses. Those taking only one course pay \$10. Those taking four courses pay \$20, except in the School of Applied Science.

IN THE SCHOOL OF MUSIC

Matriculation (paid only once on entering)-----	\$5.00
General library, athletic and physical training fees-----	2.35
Pianoforte, singing, organ and violin—two lessons per week of thirty minutes-----	18.00

Second subject -----	18.00
Theory—two class lessons per week-----	4.00
History—two class lessons per week-----	4.00
Solfeggio—two class lessons per week-----	4.00
Teachers' Training Course—two class lessons per week-----	8.00
Public school music—two class lessons per week-----	4.00
Rent of piano or organ—three hours' daily practice-----	10.00
Rent of piano or organ—two hours' daily practice-----	7.00
Rent of piano or organ—one hour's daily practice-----	3.50
Music Library -----	.75

Total, \$130 to \$150 per year, not including laundry and personal expenses.

The incidental fee of \$15 applies to those taking two courses or three courses. Those taking only one course pay \$10. Those taking four courses pay \$20, except in the School of Applied Science.

IN THE SCHOOL OF RELIGION

Matriculation (paid only on entering)-----	\$5.00
Room rent, including steam heat and light per quarter-----	12.00
Dormitory linen and laundry for same-----	2.00
Library and athletic fees for the year-----	5.00
Room deposit, to be refunded at end of occupation of room, if room and furnishings are in proper order-----	1.00

Correspondence students must purchase the necessary textbooks and pay a tuition fee of \$2.50 for each half course taken toward a diploma and \$5 for each half course taken toward a degree. Unmatriculated students taking special correspondence studies must purchase the necessary textbooks. In these special correspondence studies, a subject is divided into two courses. The tuition for a course in any subject is placed for the present at the very low rate of \$4, payable invariably in advance.

This includes all expenses for question papers and examination papers. Students must enclose stamps for the return of reports on lessons sent in to the office. If for any cause an application should fail of acceptance, the tuition fee is at once returned to the sender.

The tuition fee for the evening classes is \$7 for a quarter or \$2.50 for a month. The fee for one course of study is \$2.50; for two courses \$5; for three or more \$7 per quarter.

These fees are payable in advance. By special permission, payment may be made monthly. All fees must be paid to the Treasurer, who will issue the proper class admission cards.

Theological students pursuing courses except Greek in the other foregoing schools are charged a proportional incidental fee.

IN THE SCHOOL OF LAW

Matriculation (paid only on entering)-----	\$5.00
Tuition fee for the year, payable semi-annually in advance-----	50.00
Library and athletic fees for the year-----	5.00

If all the dormitory space is not taken by academic students, law students may secure rooms in Clark Hall on terms given in the foregoing.

IN THE SCHOOL OF MEDICINE (MEDICAL, DENTAL AND PHARMACEUTIC COLLEGES)

Fee for entrance examination-----	\$5.00
Matriculation (paid only on entering)-----	5.00
Library and athletic fees for the year-----	5.00
Medical College, tuition for the year-----	125.00
Medical College, laboratory fee for the year-----	25.00
Dental College, tuition for the year-----	100.00
Dental College, laboratory fee for each year-----	25.00
Pharmaceutical College, tuition for the year-----	80.00
Pharmaceutical College, laboratory fee for each year-----	20.00

If all the dormitory space is not taken by academic students, medical students may secure rooms in Clark Hall on terms given in the foregoing.

Tuition and laboratory fees are payable to the treasurer of the Faculty, Dr. McNeill, half on registration and half on first following January. All other fees are payable on registration.

ESTIMATED EXPENSES OF STUDENTS FOR ONE QUARTER IN ANY EXCEPT PROFESSIONAL SCHOOLS

Incidental fee -----	\$15.00 to	\$15.00
Room rent, heat and light-----	12.00 to	14.00
Board about \$18.50 per month, 3 months-----	55.50 to	55.50
Laboratory fees and deposits in Chemistry-----		10.00

Matriculation fee (first year only)-----	5.00
Laundry -----	10.00 to 20.00
Books -----	6.00 to 15.00
	\$98.50 to \$134.50

The foregoing does not include clothes and incidental personal expenses, as these vary with the individual. The smaller amount would apply to students in the earlier years.

GRADUATION AND DIPLOMAS

Diplomas for Bachelor's Degree and that of Doctor of Medicine,

Pharmacy, Dentistry -----	\$5.00
Graduation fee -----	2.00
Certificates for those who have completed courses which do not entitle them to a degree-----	3.00

FEES FOR COURSE LEADING TO THE MASTER'S DEGREE

Matriculation fee -----	\$5.00
Incidental fee per quarter-----	15.00
Tuition for the course-----	50.00
Graduation and diploma fee-----	25.00

In laboratory courses fees for material used, breakage and waste.

Any personal property left by students during term time or vacation in the care of any officer of the University or in any of its buildings or upon its grounds, must be so left at the risk and liability of the owner thereof. The University does not hold itself liable for any personal property belonging to students.

HOW TO ENTER

Before coming to Washington, one desiring to enter the University should invariably write to the Registrar, stating clearly what studies he has completed and what courses of study he desires to take. Failure to do this may work an ultimate hardship. The Registrar will then send him a blank form for a certificate of his record by the authorities of the school he has last attended. The requirements for admission into Howard University are higher than in some Southern institutions.

On reaching the city, students intending to enter the School of Medicine (including the Medical, Dental and Pharmaceutic Colleges), should report at once to Dr. William C. McNeill, Secretary, at the Medical Building at Fifth and W Streets; those intending to enter the School of Law, to the clerk, at the Law Building, 429 Fifth Street, opposite the courthouse. Those who plan to enter other schools will report at the Registrar's Office in the Main Hall on the University campus. On inquiry at the information booth at the Union Station, the student will be properly directed by the official in charge. From the Union Station the campus is most conveniently reached by taking any car going west on the Washington Railway & Electric Line and transferring at Ninth Street to a northbound Takoma Park, Forest Glen, District Line, Brightwood or Soldiers' Home car.

EXTRACT FROM THE MINUTES OF THE BOARD OF
TRUSTEES OF HOWARD UNIVERSITY

February 6, 1913.

"RESOLVED, That each Faculty of Howard University other than the Medical Faculty, shall be composed of its dean, professors, associate professors and assistant professors, together with such instructors as are appointed for a term longer than one year, all of whom are to teach in the school under the charge of the Faculty. Instructors and assistants who are appointed for one year to give instruction in a particular school may attend the meetings and take part in the deliberations of its Faculty, but shall not vote. The President of the University shall be a member of each Faculty."

THE COLLEGE

COMPRISING

THE JUNIOR COLLEGE AND THE SENIOR SCHOOLS

The College comprises the Junior College, which administers the Freshman and Sophomore years; the School of Liberal Arts, the School of Education, the School of Journalism, the School of Commerce and Finance, the School of Applied Science, and the School of Music, which administer the Junior and Senior years. The University maintains also a School of General Service.

The affairs of each College are administered by the President of the University and the Faculty.

All persons beginning collegiate work must enter the Junior College. Candidates for the purely academic degrees, Bachelor of Arts and Bachelor of Science, will take their Junior and Senior years in the School of Liberal Arts. Those desiring a specialized baccalaureate degree will enter some other Senior School of their choice.

DEPARTMENTS OF STUDY

The work of the College is divided into several departments or branches of study:

- I. Department of Architecture.
- II. Department of Agriculture.
- III. Department of Biology.
- IV. Department of Chemistry.
- V. Department of Civil Engineering.
- VI. Department of Commerce and Finance.
- VII. Department of Drawing.
- VIII. Department of Economics.
- IX. Department of Education.
- X. Department of Electrical Engineering.
- XI. Department of English.
- XII. Department of Geology.
- XIII. Department of German.
- XIV. Department of Greek.

- XV. Department of History.
- XVI. Department of Home Economics.
- XVII. Department of Journalism.
- XVIII. Department of Latin.
- XIX. Department of Library Training.
- XX. Department of Mathematics.
- XXI. Department of Mechanical Engineering.
- XXII. Department of Music.
- XXIII. Department of Philosophy.
- XXIV. Department of Physical Education.
- XXV. Department of Physics.
- XXVI. Department of Political Science and Government.
- XXVII. Department of Psychology.
- XXVIII. Department of Romance Languages.
- XXIX. Department of Sociology.

ADMISSION REQUIREMENTS

Applicants for admission without condition to the Freshman class must present fifteen secondary units. An applicant may be admitted conditioned in not more than two units, provided, first, that he removes all conditions during the Freshman year; and, second, that he does not carry more than the regular number of courses, which must include those in which he is conditioned. If his average for the quarter is B or above, he will be permitted to take an extra course in the subsequent quarter. Any Freshman or unclassified student failing in more than half his work will be dropped.

A unit represents a year's study in any subject, in a secondary school, constituting approximately a quarter of a full year's work. The secondary school work must be preceded by eight years of graded school study. This statement is designed to afford a standard of measurement for the work done in secondary schools. It takes the four-year high school course as a basis and assumes that the length of the school year is from thirty-six to forty weeks, that a period is from forty to sixty minutes in length, and that a study is pursued for four or five periods a week; but under ordinary circumstances, a satisfactory year's work in any subject cannot be accomplished in less than one hundred and twenty 60-minute periods, or their equivalent. Schools organized on a different basis can nevertheless estimate their work in terms of this unit.

There are three methods of admission to the Freshman Class:

1. Through examinations conducted by the University.
2. Through examinations conducted by the College Entrance Examination Board, and
3. Through certificates from accredited schools.

Every candidate, irrespective of the method by which he seeks admission, must present to the University through the principal of his school, *first*, a report covering the entire record of subjects and grades for four years, and, *second*, a statement including an estimate of his *character, scholarly interests and special ability*.

ENTRANCE EXAMINATIONS CONDUCTED BY THE UNIVERSITY

Applicants who do not come from an accredited secondary school will be examined in all subjects offered for admission.

These examinations are intended to test the student's general training, power, and capacity, rather than his familiarity with the details of the several subjects. They are given by the Board of Examiners or under their supervision. Before taking any examination conducted by the University, an applicant must make written application to the Registrar, upon blanks provided for the purpose, and must secure a card admitting him to the examination. This may be done by correspondence, but the application must be received not less than one week before the date of the examinations. An examination fee of \$2 will be charged and will not be refunded under any circumstances.

ENTRANCE EXAMINATIONS CONDUCTED BY THE COLLEGE ENTRANCE EXAMINATION BOARD

Entrance examinations conducted by the College Entrance Examination Board are accepted in place of the entrance examinations conducted by Howard University, provided they are passed with a grade of at least 60 per cent. In 1920 examinations will be held June 21-26. For further information, address the College Entrance Examination Board, 431 West 117th Street, New York, N. Y.

ADMISSION BY CERTIFICATE

In place of examinations, certificates may be accepted from schools accredited for the purpose by Howard University. Howard University will admit by certificate also the graduates of secondary schools

accredited by the Association of Colleges and Preparatory Schools of the Middle States and Maryland, the New England College Entrance Certificate Board, or the North Central Association of Colleges and Secondary Schools.

Principals desiring to have their schools placed upon the accredited list of Howard University should make application to the Registrar of the University and must give full and detailed information of their faculty, pupils, courses of study, library, laboratories and other equipment, upon blanks furnished for the purpose. All schools must be re-accredited upon the expiration of a term not exceeding three years, or when the principal is changed. Any school will be dropped from the accredited list if its graduates fail to do satisfactory college work.

ADMISSION TO ADVANCED STANDING

A candidate for admission to advanced standing who comes from an approved college will be admitted without examination, provided the requirements of the institution from which he comes are equivalent to those of Howard University. The amount of college credit he is to receive for work already done will be determined by the Board of Examiners in the light of the formal official statements he brings from the college or university last attended.

A candidate for admission to advanced standing who does not come from an approved college must qualify for admission in the same manner as an incoming freshman, and then submit to examination in the subjects for which he seeks advanced credit.

ADMISSION OF UNCLASSIFIED STUDENTS

Persons 21 years or over, of good character, who desire to pursue certain subjects in Howard University, may enter without becoming candidates for a degree and will be listed as unclassified students. They must prove their ability to pursue successfully the subjects chosen. They will be subject to the same fees and discipline as students in the regular courses. Such persons may later become candidates for a degree upon meeting the entrance requirements.

SUBJECTS ACCEPTED FOR ADMISSION

No subjects will be accepted for college admission that are not counted for graduation by the high school.

Duplication of high school and college credits is not allowed. Courses credited for admission may not be repeated in the College for credit toward graduation. Also, any admission credit will be canceled if the student's work in College proves him unfit.

The following *seven* units are required of all students:

English	-----	3	Required	5 units
Algebra	-----	1		
Geometry	-----	1		
One foreign language	-----	2	Optional	2 units
Science	-----	2		
History	-----	2		

			Total	7 units

The maximum credits accepted in each of the following groups are as follows: (a), 3; (b), 3; (c), 8; (d), 3; (e), 4; (f), 4.

(a)

English	-----	3 units
Note.—Four years of secondary work in English yield 3 entrance units.		

(b)

Algebra	-----	1 to 1½ units
Plane Geometry	-----	1 unit
Solid Geometry	-----	½ unit
Plane Trigonometry	-----	½ unit

(c)

Greek	-----	1 to 3 units
Latin	-----	2 to 4 units
French	-----	1 to 4 units
Spanish	-----	1 to 4 units
German	-----	1 to 4 units

Note.—One unit in a foreign language will be accepted provisionally, and will not be credited until another unit in the same language is earned in college.

(d)

Ancient History	-----	½ to 1 unit
Medieval and Modern History	-----	½ to 1 unit
English History	-----	½ to 1 unit
American History	-----	½ to 1 unit
General History	-----	1 unit
Civil Government	-----	½ unit

Note.—General History will not be accepted if Ancient, Medieval, or Modern History is offered.

(e)

Physics	-----	not less than 1 unit
Chemistry	-----	not less than 1 unit
Physical Geography or		
Physiography	-----	½ to 1 unit
Botany	-----	½ to 1 unit
Zoology	-----	½ to 1 unit
Physiology	-----	½ to 1 unit
General Science	-----	½ to 1 unit

(f)

Bookkeeping	-----	$\frac{1}{2}$ to 1 unit
Commercial Geog.	---	$\frac{1}{2}$ to 1 unit
Stenography	-----	1 unit
Freehand and Mechanical		
Drawing	-----	$\frac{1}{2}$ to 2 units
Shop work	-----	$\frac{1}{2}$ to 3 units
Home Economics	---	$\frac{1}{2}$ to 3 units
Agriculture	-----	$\frac{1}{2}$ to 3 units

Note.—Subjects in group (f), like laboratory subjects, count two hours for one.

GRADUATION AND DEGREES

AMOUNT OF WORK

The requirements for graduation shall consist of the satisfactory completion of thirty-six units of classroom work according to specified requirements of the Junior College and the Senior Schools. A student is expected to do at least three units of work each quarter, and will not be allowed to do more except by special permission granted because of his superior work, but Applied Science students may do more than three units a quarter.

A student may graduate at the end of any quarter during which he has met in full the requirements of the University.

DIVISION OF THE YEAR AND CREDITS

The collegiate year is divided into three quarters, Autumn, Winter, and Spring.

The Trustees of the University have authorized a Summer Quarter, and it will be inaugurated in the early future as soon as the demand for it warrants.

A course of study pursued through a quarter yields a unit. Courses meet five times a week. Two hours of laboratory work count as one hour of recitation, except in the School of Education and the School of Applied Science, where a larger requirement may be made.

Credit toward graduation will not be given in any course covering more than one quarter until all the work of the course is completed.

Credit will not be given for less than two quarters' work in a foreign language.

Students may enter at the beginning of any quarter.

All students must register at the beginning of every quarter, whether they were in residence the preceding quarter or not.

No student will be allowed to enter after the registration period, except upon payment of a late registration fee of \$5. New students who do not register during the first five days of the quarter, in addition to paying the late registration fee, must make written application to the Board of Examiners and will be admitted only by vote of that body. Former students who do not register during the first five days of the quarter, in addition to paying the late registration fee, must make written application to the Board of Deans, and will be admitted only by vote of that body.

Physical education is required for four years of all candidates for graduation. Each candidate for graduation must present to the Registrar a certificate from the Director of Physical Education stating that he has satisfactorily completed the work required in that department.

Chapel attendance is required of all academic students. Three cuts a quarter are allowed for chapel and for class.

SCHOLARSHIP GRADES.

A student's standing is expressed as of Grade A, B, C, D, E, or F. A denotes excellent scholarship; B, good; C, fair; D, poor. E indicates that the student has not passed, but may take within a year one extra examination to remove the condition; failing in this, he must repeat the course. F indicates failure; one receiving such a grade must repeat the course.

Courses with grades of A, B, C, or D may be counted toward a degree, but not more than one-fourth of the work offered for graduation may be of grade D.

Those with twenty-seven A's and B's, of which at least ten are A's, bear at graduation the distinction *Cum Laude*. Those with thirty-two A's and B's, of which at least eighteen are A's and none below C, bear at graduation the distinction *Magna Cum Laude*. Those with thirty-six A's and B's, of which at least twenty-seven are A's, bear at graduation the distinction *Magna Cum Laude*.

DEGREES

The following degrees are offered by the University:

- a. The School of Liberal Arts, A. B. and S. B.
- b. The School of Education, S. B. in Education and A. B. in Education.
- c. The School of Applied Science, S. B. in C. E.; S. B. in E. E.; S. B. in M. E.; S. B. in Architecture; S. B. in Agriculture, and S. B. in Home Economics.
- d. The School of Finance and Commerce, S. B. in Commerce.
- e. The School of Journalism, S. B. in Journalism.
- f. The School of Music, Bachelor of Music.

GROUPS OF STUDIES

I.	II.	III.
Greek	Mathematics	History
Latin	Physics	Economics
English	Chemistry	Political Science
French	Biology	Sociology
Spanish	Physiology	Philosophy
Italian	Geology	Psychology
German	Geography	Education.

The School of Liberal Arts confers the degree of Bachelor of Arts when the student has completed at least nine units in Group I, six of which must be in foreign language and six units in Group II or Group III. The remaining units required for graduation are elective.

The degree of Bachelor of Science is conferred when the student entering with the maximum admission credits in science has completed in Group II not less than nine units and six other units in another group. For this degree three of the units required in Group II must be in mathematics. Students in the School of Education completing not less than nine units in Education receive the degree of Bachelor of Arts in Education or Bachelor of Science in Education.

The School of Applied Science offers the degrees of Bachelor of Science in Civil Engineering, Mechanical Engineering, Electrical Engi-

neering, Agriculture, or Home Economics; the School of Commerce and Finance, the degree of Bachelor of Science in Commerce; the School of Journalism, the degree of Bachelor of Science in Journalism; and the School of Music, the degree of Bachelor of Music. In each of these cases, however, the requirements for the degree of Bachelor of Science include not only the completion of not less than nine nor more than fourteen units in a special field and six additional units in another, but also a number of other requirements peculiar to these schools. The electives of students in these schools are, therefore, few.

Candidates for degree of Bachelor of Science in the School of Education, the School of Commerce and Finance, and the School of Journalism are required to complete not less than nine units in Group 3. Candidates for a degree in the School of Music complete nine units in Group 1. Candidates for degrees in the School of Applied Science will, from the nature of the course, do more than this amount of work in Group 2.

COURSES OF LIMITED CREDIT

Students in one school may elect a small number of courses in another, but certain courses in the Junior College will yield only one-half credit to students in the Senior Schools. These are: English 1 and 2, History 1 and 2, Mathematics 1 and 2, German 1 and 2, French 1 and 2, Spanish 1 and 2, Physics 1 and 2, Chemistry 1 and 2.

DIVISIONS OF STUDENTS

The students of the Junior College and the Senior Schools are grouped for convenience in six divisions to bring the whole student body under the direct supervision of the Dean of Men and the Dean of Women. These Deans will arrange for periodical meetings to give lectures and hold individual conferences, taking up the lifework and special problems of the students, their duty to themselves, their homes, their fellow-students, their instructors, the University, the community and the nation. The division to which a student belongs is determined by the number of units with which the student has been credited in the University, according to the following schedule:

Division 1-----	0 to 6 units
Division 2-----	7 to 12 units
Division 3-----	13 to 18 units
Division 4-----	19 to 24 units
Division 5-----	25 to 30 units
Division 6-----	31 to 36 units

The men in these divisions will meet the Dean of Men and the women, the Dean of Women, at such times as may be arranged.

JUNIOR COLLEGE

The Junior College embraces the work of the first two years. The aim is to bring under the same supervision all first and second year students to give them the guidance necessary to laying a broad foundation for the more advanced work of the Senior Schools. The students of the Junior College are mainly concerned with meeting specified requirements. On completing such courses, together with sufficient electives to constitute eighteen units, these students become members of the Senior Schools for which they have prepared.

The University maintains close connection with the institutions less favorably circumstanced with a view to cooperating with them in the preparation of those students desiring to continue their studies. The University endeavors to guide them in the instruction of such students as take elsewhere only those courses which may be profitably pursued while they defer other subjects which may be more advantageously taken at Howard.

Students anticipating the study of Religion or Law, as well as those already registered in these schools, and desiring further to strengthen their foundation, may pursue in the College, upon payment of the required fees, courses in which they need to be well grounded.

STUDIES IN THE JUNIOR COLLEGE.

A Junior College student preparing to enter a Senior School is advised to complete one of the following lists of studies:

THE SCHOOL OF LIBERAL ARTS

For candidates for the degree of Bachelor of Arts

English, including	And any two of the three following:
Public Speaking -----3 units	Science -----3 units
Foreign Language---2 to 6 units	Mathematics -----2 units
Psychology -----1 unit	History -----2 units
Electives -----5 to 10 units	

For candidates for the degree of Bachelor of Science

English, including	Psychology -----1 unit
Public Speaking -----3 units	Mathematics -----3 units
Modern Language -----6 units	
Electives -----5 units	

SCHOOL OF EDUCATION

English, including	History	-----2 units
Public Speaking	General Psychology	-----2 units
Foreign Language	Mathematics	-----3 units
Physiology	Electives	-----2 units

SCHOOL OF COMMERCE AND FINANCE

English, including	Political Science	-----2 units
Public Speaking	Psychology	-----1 unit
History	Mathematics	-----3 units
Chemistry or Physics	French or German	-----2 units
Economics	Electives	-----2 units

SCHOOL OF JOURNALISM

Advanced English Com- position, including Pub- lic Speaking	English Literature	-----2 units
Mathematics or Science	A general course in Shake- speare	-----2 units
European History	Modern European Litera- ture	-----2 units
Introductory Economics	French or German	-----4 units

PRÉ-MÉDICAL PROGRAM

English, including	Physics	-----4 units
Public Speaking	Chemistry	-----4 units
Mathematics	Zoology	-----4 units
French or German		

SCHOOL OF LIBERAL ARTS

The School of Liberal Arts comprises one of the constituent parts of the third and fourth year college group. On completing at least eighteen units in the Junior College or the equivalent in some other accredited institution, students continuing their work at Howard University largely in cultural fields become automatically members of the School of Liberal Arts. This school is established not only to provide facilities for instruction for students primarily interested in obtaining a liberal education, but for those who desire to do more than two years of collegiate work before pursuing courses leading to the professions.

The School of Liberal Arts offers the academic degrees: Bachelor of Arts and Bachelor of Science. The total requirements for work in recitations, lectures, and laboratory exercises are three units a quarter and thirty-six for the whole course, eighteen of which must be completed in the Junior College or in some accredited institution. This does not mean that a student may not do more than eighteen units in some accredited institution and still obtain a degree at Howard University. Such a student, however, may not do elsewhere more than twenty-seven units, since the minimum requirement for work in residence for any degree is nine units.

While the School of Liberal Arts is mainly concerned with the promotion of studies intended to broaden one's vision and to develop generally the powers of the mind, students will not be permitted to choose their courses at random. On entering the School of Liberal Arts, every student must choose the field in which he desires to do most of his work, and his courses must be selected in groups of correlated subjects and must be pursued according to their logical sequence.

The School of Liberal Arts confers the Degree of Bachelor of Arts when the student has completed at least nine units in Group I, six of which must be in foreign language and six in Group II or Group III. The remaining units required for graduation are elective.

All candidates are required to do two of the following: Three units of science chosen from biology, chemistry, physics or geology; two units of mathematics; two of history.

The work required for the degree of Bachelor of Arts shall include nine units of coherent studies in Group I and six units in another group of closely related studies. Secondary work for which college credit is given shall not count as a part of these fourteen units. Candidates for the degree of Bachelor of Science must meet the same requirements except that nine units of their work must be taken in Group II and six units in some other group. For this degree three of the units required in Group II must be in mathematics.

Professional courses in law, medicine, and theology will be accepted for credit toward the Bachelor's degree, provided that the work in professional schools consists of correlated courses and constitutes not less than four units nor more than nine. This provision enables students expecting to pursue professional courses to obtain both the degree of Bachelor of Arts and their professional degree in one year less than the time required by both schools, provided they comply with the requirements of the School of Liberal Arts at the time of the expiration of their third year in college.

Courses in the professional schools may be elected only by students who complete eighteen units at the University before receiving the Bachelor's degree. Students from other schools who enter with credit for eighteen units may not elect professional courses. Before registering for a course in the professional school, students should consult the head of the professional school concerned and the Dean of the School of Liberal Arts.

Candidates desiring to complete the requirements for the degree of Bachelor of Arts in less than four years may do so by taking extra courses. Permission to do additional work, however, will be given only to students whose ratings in the Junior College are considered highly satisfactory. Students from other institutions will not generally be permitted to undertake thus to meet the requirements for graduation, as nine units, the minimum number of credits of University work required for any degree, cannot be secured in less than a year.

GRADUATE WORK

The University offers under the administration of an interdepartmental committee on graduate studies, several courses of post-graduate work leading to the degree of Master of Arts or Master of Science.

For the present, five fields or programs of post-graduate work are offered: (1) in Biological Science, (2) in Comparative Literature, (3) in History and Culture of the Negro, (4) in Education, and (5) in Theology. The supervision of the candidate's work and the administration of these courses are placed under the Committee on Graduate Studies.

Students who have already received the Bachelor's degree from this or other colleges of recognized standing will be admitted to candidacy for the Master's degree. In addition, they must satisfy the committee that such antecedent studies have qualified them for profitably pursuing the subjects selected for graduate work.

At least one year of residence in this University is required for the degree. The student must follow an approved program of work consisting of a minimum of eight courses and a thesis upon an approved topic. The subject of the thesis must be determined as early as possible during the candidate's first quarter of study, and the thesis must be submitted not later than two months before the granting of the degree.

Candidates for the degree will be required to have a reading knowledge of French or German.

An oral examination embracing topics in the general field of the candidate's work is required in addition to the course examinations.

Candidates for the Master's degree will be charged the usual matriculation, incidental, and laboratory fees. They will also be charged \$50 for tuition for the course and the fee of \$25 for graduation and diploma.

No work credited for the Master's degree can be credited toward any other degree given by the University.

All correspondence and applications for admission to candidacy for

the Master's degree should be addressed to the chairman of the following committee:

The Dean of the School of Liberal Arts, Chairman.

The Dean of the School of Religion.

The Dean of the School of Education.

Professor Ernest E. Just.

Assistant Professor Alain L. Locke.

SCHOOL OF EDUCATION

The School of Education is one of the Senior Schools of the University and aims to provide thoroughly prepared teachers for high schools, normal schools, academies, elementary schools, and kindergartens. It seeks to assist the student in the acquisition of a knowledge of those branches which he wishes to teach, to give him a right attitude toward education, and to establish in him skill in the use of efficient methods of teaching and supervision.

It provides for the following classes of students: (1) Teachers of experience wishing further preparation for principalship and professorships in colleges and normal schools; (2) college students intending to teach one or more special subjects in high schools and who, while working for the Bachelor's degree, desire special equipment in education and teaching; (3) persons preparing to teach in elementary schools and kindergartens; (4) mature teachers wishing to familiarize themselves with new methods or to master new branches; (5) college graduates who have not had the advantage of the more recent work in modern education and who desire to extend their professional training.

Applicants for admission to the School of Education must have completed the course in the Junior College, including the prerequisites as prescribed by the School of Education, or the equivalent.

Applicants who offer collegiate or professional courses from normal schools in excess of the requirements for admission may be given advanced standing, provided that such accredited work rests upon a pre-collegiate preparation of a four-year course in an accredited high school.

ORGANIZATION AND SCOPE OF WORK

The organization is such that the student shall begin to think of the profession of teaching immediately on entering the University. While he does not enter the School proper until the Junior Year, the student receives guidance and counsel at the outset in selecting his courses. The foundation work in physiology, psychology and social science will be given as far as possible with the teaching profession in mind.

SENIORS

As the student takes up his work in the School of Education, beginning with the Junior year, he is expected to decide, in consultation with his advisor, upon the particular field in which he wishes to teach. During his Senior year he will be required to take a teaching course in his chosen field, which must be based, however, upon at least three subject-matter courses.

DEGREE REQUIREMENTS

All regular students in the School of Education must complete, in addition to the work of the Junior College, two years of residence and a minimum of eighteen units—three courses of five hours a week, or their equivalent, through three quarters in each year, including the courses listed below as required subjects.

Upon the successful completion of such a course, the college grants a degree of Bachelor of Arts in Education or Bachelor of Science in Education.

SCHOOL OF JOURNALISM

The School of Journalism has been established to give thorough training to students interested in newspaper and magazine work. Closely connected with the School of Journalism are the University Press and the Department of Publications, directed by the same head. This close connection of these departments brings to the students of the School of Journalism many opportunities for practical work in editing and managing the University publications.

The requirements for admission to the School of Journalism are the same as those of the other Senior Schools of the University. Students from other colleges who have regularly pursued the courses equivalent to those prescribed for the Junior College may be admitted on presenting a certificate showing that they have successfully completed the work.

Special students may be admitted at the discretion of the Director when convinced that their preparation has been sufficient to enable them profitably to pursue the courses in Journalism, but they must conform in every respect to the regulations governing the work of students who are candidates for a degree.

All students asking admission to the School of Journalism will be examined in two modern languages to test their ability to read French, German or Spanish. The mere study or the completion of such courses will not be considered sufficient, as the advanced work to be pursued in the School of Journalism requires a reading knowledge of at least two modern foreign languages.

The requirements in Journalism presuppose advanced work in English composition. Students who have not taken the courses in English composition offered in the Junior College or their equivalent must make up these deficiencies before undertaking the work in the School of Journalism. Under exceptional circumstances a student who has met all other requirements may take one of the courses in English composition while doing the required work in Journalism.

No effort will be made to restrict the work in Journalism to one field, however, for the courses required are sufficiently liberal to give an appreciation of the philosophy and history of the world; to enlighten the student on the social, industrial and political move-

ments of the day; in fact, to ground him thoroughly in all fundamentals necessary to the making of a newspaper man. The course, therefore, includes such subjects as science, economics, history, law, philosophy, language and literature.

REQUIREMENTS FOR GRADUATION

The School of Journalism confers the degree of Bachelor of Science. Candidates for this degree are required to secure credit for three units a quarter and eighteen for the two-year course. The total credits required are thirty-six units, eighteen of which must be completed in the Junior College or in some accredited college. Exceptionally bright students may by permission complete the course in less than two years after meeting the requirements of the Junior College.

Certain courses are required in the School of Journalism, but about half of the student's work will consist of electives elsewhere outlined under the description of courses for the Junior College and the School of Liberal Arts.

The following courses are required in the School of Journalism:

Journalism	-----	4 units
Journalistic French	-----	1 unit
Journalistic German or Journalistic Spanish	-----	1 unit
The History of Journalism	-----	2 units
Sociology	-----	1 unit
Politics	-----	2 units
Recent European and American History	-----	1 unit
Elements of Law	-----	1 unit
English Literature in the Nineteenth Century	-----	1 unit
Municipal Government	-----	1 unit
Finance	-----	1 unit
Free-hand and Applied Drawing	-----	1 unit
International Law	-----	1 unit

SCHOOL OF COMMERCE AND FINANCE

In response to a widespread demand for scientific preparation and training for business careers, the School of Commerce and Finance was established. While this course is necessarily liberal, the aim is to specialize in the principles of commerce and finance. The courses of instruction are designed both to give information and to cultivate mental qualities that are essential to leadership in business. Two practical courses are offered: Accounting and Secretarial. The degree of Bachelor of Science in Commerce will be conferred upon those who complete the courses of instruction. The entrance requirements are the same as those of the other degree courses offered by the University.

A general business course is made possible by grouping the electives according to individual needs.

Students expecting to enter the School of Commerce are therefore advised to take in the secondary school training, English, Latin, French, German or Spanish, mathematics, history, physics, chemistry, mechanical drawing, shorthand, typewriting and elementary book-keeping.

A student is required to take dictation at the rate of sixty words a minute to enter the Secretarial Courses of the School of Commerce and Finance. It is suggested that a student take the subject during a summer session.

GROUPS OF STUDY IN THE SCHOOL OF COMMERCE AND FINANCE

ACCOUNTING--	Elementary Accounting -----	
	Advanced Accounting -----	Auditing
	Cost Accounting -----	
	Accounting Systems -----	
ORGANIZATION--	Business Finance -----	
BUSINESS	Corporation Finance -----	Investments
	Public Finance -----	
ELEMENTARY LAW -----	{ Commercial International Real Estate	

INSURANCE -----	General Life
COMMERCIAL ORGANIZATION -----	Commercial Products Manufacturing Commercial Transportation
MONEY AND BANKING -----	Domestic Exchange Money and Banking

OUTLINE OF REQUIRED COURSES

SECRETARIAL

Junior Year

Principles of Business	Principles of Insurance
Commercial Law	Business Finance
Manufacturing Industries	Money and Banking
Business Organization	Salesmanship

Senior Year

Corporation Finance	Office Management
Elementary Accounting	Advertising
Commerce and Transportation	Investments
Real Estate	Practical Work

Electives

International Law	Life Insurance
Public Finance	Stock and Produce Exchanges
Foreign Trade Problems	

ACCOUNTING

Junior Year

Elementary Accounting	Manufacturing Industries
Economic History	Principles of Insurance
Principles of Business	Business Organization
Commercial Law	Money and Banking
Business Finance	Salesmanship
Advanced Accounting	

Senior Year

Cost Accounting	Public Finance
Corporation Finance	Auditing
Real Estate	C. P. A. Course

Electives

Investments	Accounting Systems
Farm Accounting	International Law
Stock and Produce Exchanges	Office Management
Foreign Trade Problems	Life Insurance
Transportation	Advertising
Social Problems	The Labor Problems
Municipal Government	Statistics

SCHOOL OF APPLIED SCIENCE

GENERAL STATEMENT

Educators agree that the people must progress along all lines of human endeavor simultaneously; the progress must of necessity be industrial, intellectual, physical and moral. The schools in which technical subjects and home economics are being taught are rapidly increasing in number, and the demand for well-trained teachers and demonstrators of the subjects is greater than ever before.

The Departments of Engineering and Architecture offer to those who enter it the widest fields of industry and enterprise known to the modern world. Its influence reaches far out in many directions, contributing to the welfare of the country, not only along purely technical lines, but also in a large number of the great industrial fields and in the public service of the country. It is a profession of help, of service and of betterment. To the young man of mechanical or mathematical turn of mind, engineering, architecture and agriculture are professions full of opportunities and possibilities.

The Department of Agriculture offers a regular four-year course in Agriculture. This course is planned to meet three specific needs: first, to give students a thorough training in agricultural education; second, to meet the needs of those students who desire to enter the Federal service as specialists in some one of the many branches of agricultural industry, such as inspectors, plant pathologists and plant breeders; third, to furnish an opportunity for the large number of students who have had work of a vocational nature in a secondary school to round out this training and to establish it on a thoroughly scientific basis.

The Department of Home Economics offers courses which deal with the principles which underlie the proper management of the home, the care of children, the hygienic and sanitary conduct of institutions, and the economic conditions affecting the work of women.

The classes are planned to meet the needs of four classes of students:

1. Those students who desire a general knowledge of the subject matter as a basis for application in the study of the general arts and sciences as a part of a liberal education.

2. Those students who desire to make a detailed study of Home Economics in its relation to the arts and sciences which are fundamental in the management of the home.
3. Those students who wish to teach Home Economics in secondary schools, vocational schools, extension work and in higher institutions.
4. Those who wish to prepare themselves for other vocations than teaching or home-making, or for vocations which can be carried on in connection with other lines of work.

EQUIPMENT

The Department has for its use the new Applied Science Building, in the basement of which are the engineering laboratories, class rooms and a large, well-lighted drafting room. The pattern shop, the machine shop, stock room and office of the Director occupy the second floor, while on the third floor are the Department of Home Economics, recitation rooms and storage rooms. In the basement of Spaulding Hall, which adjoins the Applied Science Building, is situated the print shop. The electrical laboratory is at present situated in the basement of Thirkield Science Hall. The power plant of the University is being equipped with modern testing apparatus and furnishes facilities for running steam and electrical machinery tests on a much larger scale than would be possible under ordinary circumstances. All machines in the pattern shop, machine and printing shops are equipped with individual motor drive.

ENGINEERING EQUIPMENT

The material laboratory is fully equipped with modern apparatus for commercial testing and comprises, in part, a 100,000-pound motor-driven Riehle testing machine, for extension, compression, traverse and shearing tests; a Riehle cement tester; cement and sand sieves; balances; apparatus for viscosity and specific gravity determinations; molds for briquette work; tanks; accelerators; drying oven, etc.; an Emerson fuel calorimeter for testing the calorific values of fuels; standard gauge testers; Crosby steam indicators, etc.

The hydraulic laboratory is most complete; the apparatus has been newly installed and furnishes facilities for running tests on centrifugal, triplex and duplex pumps, hydraulic ejectors, hydraulic rams, the calibration of wiers, venturi meters, orifices, flow of water in pipe

and flow through nozzles. The civil engineering equipment is modern in every respect, and includes transits, plane tables, levels, compasses, sextants, planimeters, slide rules, blueprint frames, steel tapes, aneroid barometers, leveling rods and range poles.

The electrical laboratories situated in the basement and on the second floor of Science Hall comprise workshops, a storage-battery room, photometer room and a large, well-lighted dynamo room. The equipment includes standards of resistance, inductance and capacity; galvanometers of various types; potentiometers and electro-dynamometers; Thompson's electrostatic voltmeter and electric balances; sechometers; magnetometers; wheatstone and slide-wire bridges; a large assortment of voltmeters, ammeters and wattmeters for measurement of direct and alternating current circuits. These instruments have been purchased from various manufacturers in order that the student may have the advantage of working with these different commercial types. One of the latest types of watthour meters for use in dwellings has been added. This is a General Electric G type 1-14 meter and is fitted with a glass cover for inspection while in operation. In the dynamo room a 10-K. W. rotary converter, which runs on 220 volts, 3-phase alternating current for use in the laboratories, has been installed; a General Electric G standard switchboard panel for control and distribution of direct and alternating current for use with the converter and also for a modern compound-wound interpole 10-H.P. direct-current 220-volt motor has also been installed.

The motor equipment consists further of one Westinghouse 10-H.P. 220-volt induction motor, two General Electric Co. 5-H.P. 220-volt induction motors and two 110-volt D. C. machines, which are not rated, but are used for experimental purposes in electrical design. The students from time to time change the windings, according to calculations made by them, thus affording an opportunity for testing the practicability of their design. Transformers of the commercial type, from several leading manufacturers, are installed for general testing and instruction purposes. Arc lamps of the D. C. and A. C. type are also installed for study purposes and for use on constant potential and constant current circuits. A large commercial testing bench is being wired up by the students. This will afford means of testing small motors and generators up to 2 H.P. and will be equipped

with all the latest methods of regulating the supply voltage and current. Instrument outlets and switches are also to be provided, as is also the latest method of suspending the rheostats, etc. A storage battery of fifty-five cells, furnishing 110 volts D. C., is installed, and is kept in operation by the students. This set is used where a non-fluctuating current is needed for delicate tests. The large, modern power plant of the University furnishes facilities for commercial testing, such as would be met with in actual practice.

REQUIREMENTS FOR GRADUATION

The School of Applied Science will confer the following degrees upon students who satisfactorily complete one of the groups of courses as outlined on the following pages:

- Bachelor of Science in Civil Engineering.
- Bachelor of Science in Electrical Engineering.
- Bachelor of Science in Mechanical Engineering.
- Bachelor of Science in Architecture.
- Bachelor of Science in Agriculture.
- Bachelor of Science in Home Economics.

ELECTIVES

Electives in the School of Applied Science are chosen from the following group:

<i>Freehand Drawing.</i>	<i>Farm Crops.</i>
<i>Mechanical Drawing.</i>	<i>Principles of Education.</i>
<i>Plant Pathology.</i>	<i>Agronomy (special crops).</i>
<i>Plant Physiology and Breeding.</i>	<i>Agricultural Education.</i>
<i>School Administration.</i>	<i>History of Agricultural Devices.</i>
<i>Truck Farming.</i>	

SCHOOL OF GENERAL SERVICE

The School of General Service comprises the Library Training Class, the Department of Physical Education, including the Department of Military Instruction with the Reserve Officers' Training Corps.

The work in military training is an integral part of the course in physical education and subject to the control of that department.

The requirements for admission are the same as the regular admission requirements of the University. Work in library science satisfactorily done elsewhere may be accepted as meeting the University requirements. A student's military training in the preparatory school will count as credit towards meeting the requirements in the Reserve Officers' Training Corps, if such training has been sufficient to reach an objective.

The course in Library Training is elective, but all students are required to take the course in physical education and all men to take military training for two years. Students who fail to comply with this rule may not graduate, unless excused because of physical disability.

The work of the School of General Service does not lead to a degree, but the instruction offered in military training enables the student to meet certain requirements for a commission in the United States Army. Courses essentially mathematical and scientific may be accepted as meeting requirements for degrees in one of the Senior Schools when such an understanding has been reached beforehand by the instructor in charge and the Dean of the particular Senior School.

LIBRARY TRAINING CLASS

EDWARD CHRISTOPHER WILLIAMS, *Director*

In response to the rather insistent, if somewhat limited, demands, particularly from the South, for opportunities for library training, and in furtherance of its purpose eventually to offer instruction in library science which shall meet the standards set by the American Library Association, the University will accept a limited number of students as members of a library training class. These students will

receive full class instruction in reference work, bibliography, and the criticism and selection of books, and such instruction in shelf-listing, classification, cataloguing and the other technical processes as may be given without detriment to the daily routine work of the University Library. The minor processes of everyday work will be learned by observation and by doing actual work under supervision. The work in its present form is designed primarily for persons already engaged in library work, or fitting themselves for a definite position. The course, if followed earnestly, should fit the student for the management of a small school library or for intelligent work as assistant in a larger library.

Candidates for this class must be graduates of accredited high schools, or must be able to show equivalent preparation. As not more than six students can be accommodated during the coming year, application should be made early. Address all communications to The Librarian, Howard University. A list of the courses follows:

Reference Work.

Bibliography.

Public Documents.

Criticism and Selection of Books.

Practical Work.

Technical and Administrative Courses.

PHYSICAL EDUCATION

AIM. This study is intended to remedy common physical defects, to foster vigorous health, and to give endurance and self-control; it also seeks results more directly educational and disciplinary than these. The whole man is reached through his motor activities.

PLAN.—The work of this department may be organized under these heads:

A. Hygienic.

- (1) To develop form.
- (2) To correct undeveloped or deformed parts.

B. Educative.

- (1) To gain mental and moral self-control.
- (2) To develop muscular strength and endurance.

C. Recreative.

COURSES FOR MEN

MR. ROBINSON

FRESHMAN YEAR

	Hours
(1) Hygiene and Physiology -----	1
(2) Physical Education -----	1
(10) Military Drill -----	2
(11) Military Lecture -----	1
TWELVE—Murray Bros -----	---

SOPHOMORE YEAR

(3) History and Literature of Physical Education-----	1
(2) Physical Education -----	1
(10) Military Drill -----	2
(11) Military Lecture -----	1

JUNIOR YEAR

(4) Theory of Athletic Sports and Training -----	1
(5) Practical Work -----	1
(10) Military Drill -----	3
(11) Military Lecture -----	2

SENIOR YEAR

(5) Practical Work and Teaching -----	1
(10) Military Drill -----	3
(11) Military Lecture -----	2
(6 and 7) Physical Examination and Prescription of Exercises---	1

COURSES FOR WOMEN

MISS TUCK

AIM.—To prepare women as directors and teachers of Physical Education for public schools, academies, normal schools, colleges and Young Women's Christian Associations.

FRESHMAN YEAR

(1) Hygiene and Physiology -----	1
(2) Physical Education -----	1

SOPHOMORE YEAR

(3) History and Literature of Physical Education-----	1
(2) Physical Education -----	1

JUNIOR YEAR

Autumn Quarter

(9) Anatomy -----	1
(8) Theory of Play and Games -----	1
(5) Practical Work -----	1

Winter Quarter

(9) Anatomy -----	1
(8) Organization and Administration of Play -----	1
(5) Practical Work -----	1

Spring Quarter

(9) Anatomy -----	1
(8) Practical Work -----	1
(5) Practical Work -----	1

SENIOR YEAR

(6 and 7) Physical Examination and Diagnosis -----	1
(5) Practical Work and Teaching -----	1

RESERVE OFFICERS' TRAINING CORPS

Major DEAN

A unit of the Reserve Officers' Training Corps, Senior Division, has been established at this University, and the enrollment in it for two years in the basic course is required of all physically fit men students as a prerequisite for a degree. The third and fourth years of the advanced course are elective. The object of this unit is to qualify students for commissions in the Officers' Reserve Corps by a systematic and standardized method of training. The course prescribed gives a sufficient amount of military training to prepare college men to perform intelligently the duties of commissioned officers in the military forces of the United States and enables the student to train himself to meet the military obligations of citizenship with the least interference with his civil career.

The course in the Reserve Officers' Training Corps teaches scientific efficiency in handling men, material and supply; promotes a wholesome respect for authority and inculcates a spirit of patriotism. It engenders initiative and leadership, prepares the body for a vigorous life by building up a perfect physique properly coordinated, and gives a proper appreciation of the principles of discipline, which are courtesy, punctuality, truth and respect for self and others.

During the two years of military training in the *elective advanced course* the Government pays the student commutation of rations not to exceed the amount per ration allowed enlisted men of the regular establishment. Attendance upon at least two of the summer camps is required. The Government pays transportation to and from these camps and furnishes subsistence and tentage for cadets.

A gold medal is awarded the most proficient student in the Military Department.

A regular army officer is assigned for duty with the Reserve Officers' Training Corps at this University.

AMOUNT OF WORK

The total amount of work in the Department of Physical Education is five hours a week. Three of these hours are devoted to military training and two to physical training.

The following schedule of work is arranged:

Drill for everybody	-----	Monday
Lecture for one-third of the men	-----	Tuesday
Physical training for one-third	-----	Tuesday
* Physical training for one-third, afternoon	-----	Tuesday
Lecture for one-third of the men	-----	Wednesday
Physical training for one-third	-----	Wednesday
* Physical training for one-third; afternoon	-----	Wednesday
Drill for everybody	-----	Thursday
Lecture for one-third of the men	-----	Friday
Physical training for one-third	-----	Friday
* Physical training for one-third, afternoon	-----	Friday
Inspection of equipment and dormitories	-----	Saturday

* To be arranged to suit the convenience of one-third of the students.

SCHOOL OF MUSIC

The aim of the School of Music of Howard University is to train musicians in the steps of liberal culture which cannot be found under most private studio teachers of music. It endeavors also thoroughly to ground students in the social sciences and the literature of modern languages that they may draw on other fields for that power adequate to their full development.

Admission to the School of Music is governed by the regulations obtaining in all of the schools of the University. Students who have not had four years of preparatory training or its equivalent so as to meet these requirements for admission to the University cannot be admitted to courses leading to a degree. They may, however, be accepted as candidates for a certificate.

The degree of Bachelor of Music is given by the University to such students as have satisfactorily completed the course in music with not less than nine units nor more than fourteen in one department and six units in another department.

Students working for this degree are required to take three subjects besides the history of music, two of which are pianoforte and theory. The third, an elective, may be organ, singing or violin.

All students are required to complete two units of English, and voice students must complete six units of French, four units of German, and three units of Italian. Piano and violin students must complete four units of German.

It is only in rare instances that this degree is attained in less than four years. In such cases students must have exceptional ability. The necessary requisites for the degree are as follows:

- (a) Musical talent.
- (b) Ability to concentrate.
- (c) Physical strength to undergo hours of efficient daily study.

Attendance on all recitals and participation in some of them is required. Each student must give a creditable recital in the major study and must have a teaching knowledge of a second study.

THEORY COURSE

FIRST YEAR:

*Solfeggio 1.**Solfeggio 2.*

SECOND YEAR:

*Solfeggio 3.**Solfeggio 4.**Harmony 1.**Harmony 2.*

THIRD YEAR:

*Harmony 3.**Harmony 4.*

FOURTH YEAR:

*Harmonic Analysis 1.**Harmonic Analysis 2.**Counterpoint 1 and 2.**Formal Analysis 1 and 2.*

PIANOFORTE

In the courses in theory and history of music, all students follow the same general plan, while instruction in piano playing makes it necessary for the teacher to study the needs of each individual pupil. The purpose is to give a thorough technical foundation and at the same time cultivate that musical feeling which is so necessary to the development of true musicianship. The works of the best masters are studied through all grades of advancement. This contributes toward the development of the emotional and intellectual faculties as well as the technical; thus the student grows in taste and understanding of all that constitutes artistic performance.

CHILDREN'S DEPARTMENT

Private lessons are given in piano playing. All students are required to do class work. The training of the eye, ear and hand to complete the development of the essential musical study can best be done in classes.

DEPARTMENT FOR TRAINING OF TEACHERS

Every student is required to do at least one year's teaching before receiving his degree.

Semi-weekly lectures on modern methods of teaching children from the age of nine years to fourteen years. Observation work of classes in which children are taught harmony, ear-training, rhythm and music biography. Practice teaching.

ORGAN

The organ course is designed to give its students a thorough and practical education as church organist, choir master or concert organist.

The course provides complete theoretical and technical equipment for the organist both as leader and as accompanist. The course also comprises a study of the rendition and selection of hymns, services and anthems with the general principles in interpretation for the practical training of the choir, study in improvisation being included.

It is also the aim to give a comprehensive repertoire of such pieces of modern organ composers as have demonstrated their permanent artistic value together with the classics of Bach, Handel and others. Special attention is given throughout the entire course to the study of registration.

This course is open to all students who are at least in the intermediate grade in pianoforte.

PUBLIC SCHOOL MUSIC

The public school music course is designed to give thorough and practical training to all students in the School of Education.

Specific training is given in public school music methods, sight singing, ensemble practice, elementary harmony and ear training both for the development of the individual and for teaching purposes. Definite experience in the planning of outlines for the various grades, chorus conducting, the care and development of children's voices.

The course will require two years at two hours a week, one year at four hours a week.

VOCAL COURSE

In voice building the best features of all methods are adopted. Good breath control and correct placing of tone are the leading features of technical drill. Two terms in the history of music, in addition to the prescribed course in piano, will be required.

First Year: Principles of breathing, as taught by Shakespeare and Sieber, tone production, voice placing. Shakespeare, Book I and II. Concone, opus II, vol. 294. Sieber, opus 92, vol. III. French, German, English and psychology.

Second Year: Exercises in breathing, tone production and voice placing continued. Shakespeare, Book II. Concone, opus 9, vols. 242, 244. French, German, Italian and English.

Third Year: Shakespeare, Book III. Concone, opus 12, vol. 275. Panofka, opus 81, vol. 76; opus 85, vols. 295, 296. Oratorio and songs. German and French songs. French, Italian and English.

Fourth Year: Italian and French songs. Oratorio and opera. Senior recital.

VIOLIN COURSE

In the earlier grades the foundation is laid. The student is given simple exercises for the development of finger dexterity and for acquiring the fundamental bowings, scales and short easy solos to train the interpretative sense. A thorough knowledge of the foundation work having been acquired, the study of the higher positions follows, with further development in all the principles of the art of keeping pace with the position studies. More advanced technical studies are supplemented by solos, sonatas and concert pieces. Through all stages of the course emphasis is placed upon tone quality and intonation.

Students are trained with the view of their becoming soloists or orchestral players, and opportunities for ensemble work will be extended to them when they have advanced sufficiently. All students are prepared for the ensemble class through duet playing, by using the duets of Pleyel, Jansa, DeBeriot and others.

The course is based on the Sevcik technic, and in addition the following technical studies are used: Wiclh's and Ries' methods. Studies by Wohlfahrt, Kayser, Mazas, Kreutzer, Rode, Fiorillo, Gaviniés, scales in two and three octaves and broken chords with various bowings.

Solo works are used as follows: Seitz's Pupil's Concertos, Pleyel Sonatinas, Danclas' Airs Variés, and modern compositions from the works of Hans Sitt, Wieniawski and other recognized writers for the violin, and solo pieces of various grades of difficulty.

HISTORY OF MUSIC

The course covers the period from the beginning of the Christian era to the present with an introduction on ancient and primitive music.

FOUR-YEAR COURSES

Howard University has given definite classification to its highest music courses. The system, grades and credits established at the best conservatories of music have been adopted and are given below for each major study.

GENERAL INFORMATION

The charges for lessons and use of piano are payable by the quarter in advance. All students are required to take two lessons a week, except by express permission of the Director. No student is allowed to drop music within a quarter. No deduction will be made for lessons that are missed on account of holidays or for any cause except sickness, and then only on a physician's certificate and when lessons are missed consecutively for a month or more. Notice of such sickness should be sent to the Director of the School of Music as soon as it occurs.

Students are not allowed to join any organization outside the School of Music without permission of the Faculty.

UNIVERSITY MUSICAL ORGANIZATIONS

The University Choral Society.

One hour rehearsal twice a week throughout the year.

The University Boys' Glee Club.

One hour rehearsal twice a week throughout the year.

The University Girls' Glee Club

One hour rehearsal twice a week throughout the year.

The University Choir.

One hour rehearsal twice a week throughout the year.

LIST OF COURSES

1919-1920

Courses numbered below 25 are in the Junior College. Others are in the Senior Schools. For description of courses, see the annual catalogue.

ARCHITECTURE

Architecture 1, 2, and 3. *Architectural Drawing and Design I.* Autumn, Winter, and Spring.

Architecture 4. *Elements of Architecture.* Autumn.

Architecture 5. *Shades and Shadows.* Spring.

Architecture 6 and 7. *Architectural Design II.* Autumn and Winter.

Architecture 8. *Architectural Design III.* Spring.

Architecture 9. *Perspective.* Winter.

Architecture 10. *Freehand Drawing I.* Autumn.

Architecture 11. *Freehand Drawing II.* Spring.

Architecture 12. *Ancient Architectural History.* Winter.

Architecture 13. *Mediaeval Architectural History.* Spring.

Architecture 14 and 15. *Carpentry Construction.* Winter and Spring.

Architecture 25, 26, and 27. *Architectural Design IV.* Autumn, Winter, and Spring.

Architecture 28. *Freehand Drawing III.*

Architecture 29. *Freehand Drawing IV.* Autumn.

Architecture 30. *Water-Color Drawing.* Autumn.

Architecture 31. *Renaissance and Modern Architectural History.* Winter.

Architecture 32. *History of Painting.* Winter.

Architecture 33. *History of Sculpture.* Winter.

Architecture 34. *Masonry and Ironwork.* Autumn.

Architecture 35, 36, and 37. *Architectural Design V.* Autumn, Winter, and Spring.

Architecture 38, 39, and 40. *Theory of Design.* Autumn, Winter, and Spring.

Architecture 41. *Foundations of Buildings.* Winter.

Architecture 42. *Specifications, Estimates, and Contracts.* Spring.

Architecture 43 and 44. *Water Color Rendering*. Winter and Spring.

Architecture 45. *Professional Ethics and Practice*. Spring.

Materials of Construction. See courses in Civil Engineering.

Mechanics of Engineering. See courses in Mechanical Engineering.

Heating and Ventilating. See courses in Mechanical Engineering.

AGRICULTURE

Agriculture 1, 2, and 3. *Agricultural Botany*. Autumn, Winter, and Spring.

Agriculture 6, 7, and 8. *Agronomy*. Autumn, Winter, and Spring.

Agriculture 9, 10, and 11. *Horticulture I*. Autumn, Winter, and Spring.

Agriculture 12. *Economic Entomology*. Spring.

Agriculture 13. *Landscape Gardening*. Spring.

Agriculture 14. *Agricultural Chemistry I*. Autumn.

Agriculture 15. *Agricultural Chemistry II*. Winter.

Agriculture 16. *Agricultural Chemistry III*. Spring.

Agriculture 25, 26, and 27. *Horticulture II*. Autumn, Winter, and Spring.

Agriculture 28. *Bacteriology I*. Autumn.

Agriculture 29. *Bacteriology II*. Winter.

Agriculture 30. *Bacteriology III*. Spring.

BIOLOGY

Biology 1. *General Botany*. Autumn, PROFESSOR SCHUH.

Biology 2. *Cryptogamic Botany*. Winter, PROFESSOR SCHUH.

Biology 3. *Advanced Botany*. Spring, PROFESSOR SCHUH.

Biology 4. *Plant Pathology*. Winter, PROFESSOR TURNER.

Biology 5. *Plant Physiology*. Spring, PROFESSOR TURNER.

Biology 6. *Nature Study*. Spring, PROFESSOR TURNER.

Biology 7. *Biology of Foods*. Autumn, PROFESSOR TURNER.

Biology 8. *Human Physiology*. Winter, PROFESSOR TURNER.

Biology 9. *Human Physiology*. Spring, PROFESSOR TURNER.

Biology 10. *General Zoology*. Autumn, PROFESSOR JUST.

Biology 11. *Vertebrate Zoology*. Winter, PROFESSOR JUST.

Biology 12. *General Embryology and Histology*. Autumn, PROFESSOR JUST.

Biology 13. *Vertebrate Embryology*. Spring, PROFESSOR JUST.

Biology 25. *Anatomy of Plants*. Autumn, PROFESSOR SCHUH.

Biology 26. *Cytology*. Winter, PROFESSOR JUST.

Biology 27. *Cytology*. Spring, PROFESSOR JUST.

CHEMISTRY

Chemistry 1. *General Inorganic Chemistry*. Autumn, ASSISTANT PROFESSOR MARSHALL.

Chemistry 2. *Elementary Qualitative Analysis*. Winter, ASSISTANT PROFESSOR MARSHALL.

Note: Chemistry 1 and 2 are repeated in the Spring Quarter as a double course.

Chemistry 3. *Quantitative Analysis*. Autumn, PROFESSOR SCURLOCK.

Chemistry 4. *Quantitative Analysis*. Winter, PROFESSOR SCURLOCK.

Chemistry 5. *Inorganic Chemistry*. Autumn, PROFESSOR SCURLOCK.

Chemistry 6. *Organic Chemistry*. Winter, PROFESSOR SCURLOCK.

Note: Chemistry 5 and 6 are repeated in the Spring Quarter as a double course.

Chemistry A1. *General Chemistry*. Autumn, PROFESSOR SCURLOCK.

Chemistry A2. *General Chemistry*. Winter, PROFESSOR SCURLOCK.

Chemistry A3. *General Chemistry*. Spring, PROFESSOR SCURLOCK.

Chemistry B1. *General Chemistry*. Autumn, PROFESSOR SCURLOCK.

Chemistry B2. *General Chemistry*. Winter, PROFESSOR SCURLOCK.

Chemistry B3. *General Chemistry*. Spring, PROFESSOR SCURLOCK.

CIVIL ENGINEERING

Civil Engineering 1 and 2. *Mechanical Drawing*. Autumn and Winter.

Civil Engineering 3. *Descriptive Geometry*. Spring.

Civil Engineering 4. *Plane Surveying*. Autumn.

Civil Engineering 5. *Advanced Surveying*. Spring.

Civil Engineering 6. *Topographical Drawing*. Winter.

Civil Engineering 25, 26, and 27, *Mechanics of Engineering*. Autumn, Winter, and Spring.

Civil Engineering 28. *Hydraulics*. Autumn.

Civil Engineering 29 and 30. *Railroads*. Autumn and Winter.

Civil Engineering 31 and 32. *Materials of Construction.* Winter and Spring.

Civil Engineering 33. *Sanitary Engineering.* Winter.

Civil Engineering 34. *Structural Details.* Spring.

Civil Engineering 35, *Bridge Stresses.* Spring.

Civil Engineering 36. *Concrete Construction.* Spring.

Civil Engineering 37 and 38. *Bridge Design.* Autumn and Winter.

Civil Engineering 39. *Water Supply.* Autumn.

Civil Engineering 40. *Steel Buildings.* Autumn.

Civil Engineering 41. *Roads and Pavements.* Winter.

Civil Engineering 42. *Bacteriology.* *

Civil Engineering 43. *Irrigation Engineering.* Spring.

Civil Engineering 44. *Foundations.* Spring.

Civil Engineering 45. *Water-Power Engineering.* Spring.

Civil Engineering 46. *Engineering Economics.* Spring.

COMMERCE AND FINANCE

Commerce 25. *Business Finance.* Winter ASSISTANT PROFESSOR HINES.

Commerce 26. *Money and Banking.* Spring, ASSISTANT PROFESSOR HINES.

Commerce 27. *Elementary Accounting.* Autumn and Spring, ASSISTANT PROFESSOR CURLEY.

Commerce 28. *Advanced Accounting.* Winter and Spring, ASSISTANT PROFESSOR CURLEY.

Commerce 29. *Cost Accounting.* Spring, ASSISTANT PROFESSOR CURLEY.

Commerce 30. *Accounting Systems.* Winter, ASSISTANT PROFESSOR CURLEY.

Commerce 31. *Auditing.* Autumn, ASSISTANT PROFESSOR CURLEY.

Commerce 32. *Principles of Business.* Autumn, ASSISTANT PROFESSOR HINES.

Commerce 33. *Insurance.* Autumn, PROFESSOR COOK.

Commerce 34. *Life Insurance.* Winter, PROFESSOR COOK.

Commerce 35. *Corporation Finance.* Winter, ASSISTANT PROFESSOR HINES.

Commerce 36. *Public Finance.* Autumn, ASSISTANT PROFESSOR HINES.

Commerce 37. *Commercial Law.* Spring, PROFESSOR COOK.

Commerce 38. *Salesmanship and Personal Efficiency.* Spring.
ASSISTANT PROFESSOR HINES.

Commerce 39. *Business Organization.* Winter, ASSISTANT PROFESSOR HINES.

Commerce 40. *Real Estate.* Autumn, PROFESSOR COOK.

Commerce 41. *Investments.* Winter, PROFESSOR COOK.

Commerce 42. *Advertising.* Spring ASSISTANT PROFESSOR CURLEY.

Commerce 43. *Commerce and Transportation.* Winter, ASSISTANT PROFESSOR CURLEY.

DRAWING

Drawing 1. *Technical Drawing (a).*

Drawing 2. *Technical Drawing (b).*

Drawing 3. *Mechanical Drawing (c).*

Drawing 4. *Freehand Drawing.*

ECONOMICS

Economics 1. *The Principles of Economics.* Autumn and Winter, PROFESSOR PARKS.

Economics 2. *The Principles of Economics.* Winter and Spring, PROFESSOR PARKS.

Economics 3. *Money and Banking* (Omitted in 1919-1920). ASSISTANT PROFESSOR HINES.

Economics 4. *Public Finance.* Winter, ASSISTANT PROFESSOR CURLEY.

Economics 5. *Commerce and Transportation* (Omitted in 1919-1920). ASSISTANT PROFESSOR CURLEY.

Economics 6. *Statistics* (Omitted in 1919-1920).

Economics 7. *Principles of Accounting.* Autumn, ASSISTANT PROFESSOR CURLEY.

Economics 25. *Economic Problems* (Omitted in 1919-1920).

Economics 26. *Economic History.* Spring, PROFESSOR WOODSON.

EDUCATION

Education 25. *History of Education.* Autumn, ASSOCIATE PROFESSOR MACLEAR.

Education 26. *History of Education.* Winter, ASSOCIATE PROFESSOR MACLEAR.

Education 27. *History of Education in America.* Spring, ASSOCIATE PROFESSOR MACLEAR.

Education 28. *Kindergarten Theory.* Autumn, ASSOCIATE PROFESSOR MACLEAR.

Education 29. *The Montessori Method.* Autumn, ASSOCIATE PROFESSOR MACLEAR.

Education 30. *Gifts and Handwork.* Winter, ASSOCIATE PROFESSOR MACLEAR.

Education 31. *Songs and Games.* Spring, ASSOCIATE PROFESSOR MACLEAR.

Education 32. *Principles of Education.* Autumn, PROFESSOR MOORE.

Education 33. *Technique of Teaching.* Winter, PROFESSOR MOORE.

Education 34. *School Administration and Supervision.* Winter, PROFESSOR MOORE.

Education 35. *Observation and Practice Teaching.* Spring, PROFESSOR MOORE.

Education 36. *Elementary Education.* Autumn, ASSOCIATE PROFESSOR MACLEAR.

Education 37. *Secondary Education.* Winter, PROFESSOR MOORE.

Education 38 and 39. *Rural School Problems.* Autumn and Winter, PROFESSOR MOORE.

Education 41. *The Teaching of Elementary School Mathematics.* Autumn, PROFESSOR BROWN.

Education 42. *The Teaching of Secondary School Mathematics.* Winter, PROFESSOR BROWN.

Education 43. *The Teaching of History in the Secondary School.* Spring, PROFESSOR DYSON.

Education 44. *The Teaching of History in the Elementary School.* Autumn, PROFESSOR DYSON.

Education 45. *The Teaching of Biology in Secondary Schools.* Winter, PROFESSOR TURNER.

Education 46. *School Hygiene.* Spring, PROFESSOR TURNER.

Education 47. *The Teaching of English in the Elementary School.* Autumn.

Education 48. *The Teaching of English in the Secondary School.* Winter.

Education 49. *The Teaching of Modern Languages.* Spring, ASSISTANT PROFESSOR LOCHARD.

Education 50. *The Teaching of Ancient Languages.* Autumn,
PROFESSOR LIGHTFOOT.

Education 53. *The Teaching of Manual Arts.* Spring,

Education 54. *The Teaching of Home Economics.* Spring,

ELECTRICAL ENGINEERING

Electrical Engineering 1. *Applied Electricity.* Spring.

Electrical Engineering 25. *Direct Currents. Theory and Practice.* Autumn.

Electrical Engineering 26. *Direct Currents. Theory and Practice.*

Electrical Engineering 27. *Direct Currents. Theory and Practice.*

Electrical Engineering 28. *Direct Currents.* Autumn.

Electrical Engineering 29. *Alternating Currents.* Winter.

Electrical Engineering 30. *Alternating Currents.* Autumn.

Electrical Engineering 31. *Alternating Currents. Theory and Machinery.* Winter.

Electrical Engineering 32. *Alternating Current Machinery.* Spring.

Electrical Engineering 33. *Electrical Engineering Design.* Autumn.

Electrical Engineering 34. *Electrical Engineering Design.* Winter.

Electrical Engineering 35. *Electrical Engineering Design.* Spring.

Electrical Engineering 36. *Electric Traction.* Autumn.

Electrical Engineering 37. *Electric Traction and Transmission.* Winter.

Electrical Engineering 38. *Electric Traction and Transmission.* Spring.

Electrical Engineering 39. *Inspection Trips.* Spring.

ENGLISH

English 1. *Composition.* Autumn, Winter and Spring, ASSISTANT PROFESSOR JOHNSON, MESSRS. POLLARD AND TURNER.

English 2. *Composition.* Winter and Spring, ASSISTANT PROFESSOR JOHNSON, MESSRS. POLLARD AND TURNER.

English 3. *Advanced Composition.* Autumn, MR. POLLARD.

English 4. *Advanced Composition.* Winter and Spring, MR. POLLARD.

English 5. *English Literature.* Autumn, ASSISTANT PROFESSOR JOHNSON.

English 6. *English Literature*. Winter, ASSISTANT PROFESSOR JOHNSON.

English 7. *American Literature* (Omitted in 1919-1920). MR. TURNER.

English 8. *American Literature* (Omitted in 1919-1920). MR. TURNER.

English 9. *The English Novel*. Autumn, MR. TURNER.

English 10. *The English Novel*. Spring, MR. TURNER.

English 11. *Public Speaking*. Autumn and Winter, ASSOCIATE PROFESSOR GREGORY.

English 12. *Public Speaking* Winter and Spring, ASSOCIATE PROFESSOR GREGORY.

English 13. *Public Speaking*. Autumn, ASSOCIATE PROFESSOR GREGORY.

English 25. *Argumentation*. Autumn, ASSOCIATE PROFESSOR GREGORY.

English 26. *Debating*. Winter, ASSOCIATE PROFESSOR GREGORY.

English 27. *Essay-Writing*. Autumn, ASSOCIATE PROFESSOR GREGORY.

English 28. *Essay-Writing*. Spring, ASSOCIATE PROFESSOR GREGORY.

English 29. *The English Drama*. Winter, MR. TURNER.

English 30. *The English Drama*. Spring, MR. TURNER.

English 31. *The English Drama* (Omitted in 1919-1920). MR. TURNER.

English 32. *The English Drama* (Omitted in 1919-1920). MR. TURNER.

English 33. *Shakespeare*. Autumn, ASSISTANT PROFESSOR JOHNSON.

English 34. *Shakespeare*. Winter, ASSISTANT PROFESSOR JOHNSON.

English 35. *Chaucer* (Omitted in 1919-1920).

English 36. *Chaucer* (Omitted in 1919-1920).

English 37. *Victorian Literature* (Omitted in 1919-1920).

English 38. *Contemporary English Literature*. Spring, ASSISTANT PROFESSOR JOHNSON.

English 39. *Romanticism*. (Omitted in 1919-1920).

English 40. *Romanticism*. (Omitted in 1919-1920).

English 41. *Anglo-Saxon Prose* (Omitted in 1919-1920).

English 42. *Anglo-Saxon Poetry* (Omitted in 1919-1920).

GEOLOGY

Geology 25. *General Geology*. Winter, PROFESSOR SCHUH.

FRENCH

See Romance Languages

GERMAN

German 1. *Elements of German Grammar*. Autumn, Winter, and Spring, PROFESSOR DAVIS AND MR. WARING.

German 2. *Elements of German Grammar*. Autumn, Winter, and Spring, MR. WARING.

German 3. *Intermediate German*. Autumn, Winter, and Spring, PROFESSOR DAVIS AND MR. WARING.

German 4. *Intermediate German*. Autumn, Winter, and Spring, MR. WARING.

German 5. *Scientific Prose*. Winter, MR. WARING.

German 6. *Prose and Poetry*. Spring, MR. WARING.

German 25. *Conversation and Advanced Composition*. Autumn, PROFESSOR DAVIS.

German 26. *Life and Works of Goethe*. Spring, PROFESSOR WILLIAMS.

German 27. *Life and Works of Schiller*. Autumn, PROFESSOR WILLIAMS.

German 28. *German Literature*. Autumn, MR. WARING.

German 29. *Lessing and the Classical Period of German Literature*. Winter, PROFESSOR DAVIS.

German 30. *Nineteenth Century German Literature*. Spring, PROFESSOR WILLIAMS.

German 31. *Journalistic German*. Spring, MR. WARING.

GREEK

Greek 1. *Elementary Greek*. Autumn, PROFESSOR DAVIS.

Greek 2. *Elementary Greek*. Winter, PROFESSOR DAVIS.

Greek 3. *Xenophon*. Autumn and Spring, PROFESSOR DAVIS.

Greek 4. *Homeric Iliad*. Winter, PROFESSOR DAVIS.

Greek 5. *Plato's Apology and Crito and Xenophon's Memorabilia*, Spring, PROFESSOR DAVIS.

Greek 25. *Euripides' Medea and Sophocles' Antigone*. Autumn, PROFESSOR DAVIS.

Greek 26. *Demosthenes' De Corona*. Spring, PROFESSOR DAVIS.

Greek 27. *Herodotus and Thucydides* (Omitted in 1919-1920). PROFESSOR DAVIS.

Greek 28. *Plato's Republic*. Spring, PROFESSOR DAVIS.

Greek 29. *Greek Life* (Omitted in 1919-1920). PROFESSOR DAVIS.

Greek 30. *Greek Literature*. Winter, PROFESSOR DAVIS.

HISTORY

History 1. *Civilization of the Near East and Greece*. Autumn, PROFESSOR DYSON.

History 2. *Roman Civilization*. Winter, PROFESSOR DYSON.

History 3. *Mediaeval Europe*. Autumn, ASSISTANT PROFESSOR WESLEY.

History 4. *Modern Europe*. Autumn, ASSISTANT PROFESSOR WESLEY.

History 6. *History of England to Henry VII*. Autumn, PROFESSOR TUNNELL.

History 7. *History of England since Henry VII*. Winter, PROFESSOR TUNNELL.

History 11. *History of the United States from 1606 to 1789*. Autumn, Winter, and Spring, PROFESSOR WOODSON.

History 12. *History of the United States from 1789 to 1850*. Autumn, Winter, and Spring, PROFESSOR WOODSON.

History 13. *History of the United States from 1850 to 1877*. Winter and Spring, PROFESSOR WOODSON.

History 14. *History of the United States from 1877 to the Present Time*. Autumn and Spring, PROFESSOR TUNNELL.

History 25. *The Renaissance and the Reformation*. Autumn, ASSISTANT PROFESSOR WESLEY.

History 26. *Constitutional History of England*. Winter, PROFESSOR TUNNELL.

History 27. *The Revolutionary Movement in Europe*. Winter, ASSISTANT PROFESSOR WESLEY.

History 28. *Recent European History*. Spring, ASSISTANT PROFESSOR WESLEY.

History 29. *Latin America*. Winter, PROFESSOR DYSON.

History 30. *The Negro in American History*. Autumn, PROFESSOR WOODSON.

History 31. *Constitutional History of the United States*. Winter, PROFESSOR WOODSON.

History 32. *Constitutional History of the United States*. Spring, PROFESSOR WOODSON.

History 33. *Selected Topics in American History* (Omitted in 1919-1920). PROFESSOR WOODSON.

History 34. *America as a World Power*. Spring, PROFESSOR TUNNELL.

History 35. *Russia and the Far East*. Spring, ASSISTANT PROFESSOR WESLEY.

History 36. *European Expansion in Africa*. Autumn, ASSISTANT PROFESSOR WESLEY.

Attention is called to the following courses offered in the School of Religion by Professor E. A. Cook.

Religion 1. *History of Religion*.

Church History 1. *The Early Church to 590 A. D.*

Church History 2. *The Renaissance and the Reformation*.

Church History 3. *The Transition and Modern Eras*.

HOME ECONOMICS

Home Economics 1 and 2. *Foods and Cookery*. Winter and Spring.

Home Economics 3. *Household Management*. Spring.

Home Economics 4 and 5. *Garment Making and Elementary Dressmaking*. Autumn and Winter.

Home Economics 6. *Basketry and Weaving*.

Home Economics 7. *Costume Design*. Spring.

Home Economics 8, 9, and 10. *Design*.

Home Economics 11. *Home Nursing*. Spring.

Home Economics 12. *Serving*. Spring.

Home Economics 13. *Food Production and Manufacture*. Autumn.

Home Economics 16. *Theory of Teaching Domestic Science*. Autumn.

Home Economics 17. *Practice Teaching*. Autumn.

Home Economics 18 and 19. *Millinery and Needlework*. Winter and Spring.

Home Economics 20 and 21. *Dressmaking*. Autumn and Spring.

Home Economics 22. *Theory of Teaching Domestic Art.* Winter.
Home Economics 23. *Practice Teaching.* Winter.
Home Economics 25. *Demonstration Cookery.*
Home Economics 26. *Experimental Cookery.* Spring.
Home Economics 27 and 28. *Tailoring.* Autumn and Spring.
Home Economics 29. *Dietetics.* Autumn.
Home Economics 30. *Institutional Cookery.* Spring.
Home Economics 31. *History of Textiles.* Spring.
Home Economics 32. *Household Bacteriology.*
Home Economics 33. *Household Chemistry.* Autumn.
Home Economics 34. *Household Chemistry.* Winter.
Organic Chemistry.

JOURNALISM

Journalism 1. *A Practice Course in Writing.* Autumn.
Journalism 2. *Newspaper Technique.* Winter.
Journalism 3. *Newspaper Technique.* Spring.
Journalism 4. *Newspaper Editing.* Autumn.
Journalism 5. *The History of Journalism.* Spring.
Journalism 6. *The History of Journalism.* Winter.
Journalism 7. *Advertising.* Winter.
Journalism 8. *Journalistic French.* Spring.
Journalism 9. *Journalistic German.* Spring.
Journalism 10. *Journalistic Spanish.*
Political Science 30. *The Elements of Law.*

ITALIAN

See Romance Languages

LATIN

Latin 1. *Cicero.* Autumn, PROFESSOR LIGHTFOOT.
Latin 2. *Vergil, Books I to VI.* Winter, PROFESSOR LIGHTFOOT.
Latin 3. *Cicero, De Senectute and De Amicitia.* Autumn, PROFESSOR LIGHTFOOT.
Latin 4. *Livy.* Winter, PROFESSOR LIGHTFOOT.
Latin 5. *Horace.* Autumn, PROFESSOR LIGHTFOOT.
Latin 6. *Tacitus.* Spring PROFESSOR LIGHTFOOT.

Latin 7. *Plautus and Terence* (Omitted in 1919-1920). PROFESSOR LIGHTFOOT.

Latin 8. *Pliny and Tacitus* (Omitted in 1919-1920). PROFESSOR LIGHTFOOT.

Latin 25. *Juvenal*. Winter, PROFESSOR LIGHTFOOT.

Latin 26. *The Letters of Cicero*. Spring, PROFESSOR LIGHTFOOT.

Latin 27. *Quintilian* (Omitted in 1919-1920). PROFESSOR LIGHTFOOT.

Latin 28. *The Works of Vergil*. Spring, PROFESSOR LIGHTFOOT.

LIBRARY TRAINING

See School of General Service

MATHEMATICS

Mathematics 1. *Algebra*. Autumn, Winter, and Spring, PROFESSOR BROWN.

Mathematics 2. *Plane Trigonometry*. Autumn, Winter, and Spring, PROFESSORS BROWN AND SYPHAX.

Mathematics 3. *Solid Geometry*. Spring, PROFESSOR BROWN.

Mathematics 4. *Algebra, Trigonometry, and Solid Geometry*. Autumn, Winter and Spring, PROFESSOR BAUDUIT.

Mathematics 5. *College Algebra*. Spring, PROFESSOR SYPHAX.

Mathematics 6. *Analytic Geometry*. Spring, PROFESSOR SYPHAX.

Mathematics 7. *Spherical Trigonometry*. Autumn

Mathematics 8. *Astronomy*. Spring

Mathematics 9. *Analytic Geometry and Calculus*. Autumn, PROFESSOR BAUDUIT.

Mathematics 10. *Analytic Geometry and Calculus*. Winter, PROFESSOR BAUDUIT.

Mathematics 11. *Analytic Geometry and Calculus*. Spring, PROFESSOR BAUDUIT.

Mathematics 12. *Elementary Surveying*

Mathematics 13. *Advanced Surveying*. Spring

Mathematics 25. *Calculus I. Differential Calculus*. Autumn, PROFESSOR BAUDUIT.

Mathematics 26. *Calculus II. Integral Calculus*. Winter, PROFESSOR BAUDUIT.

Mathematics 27. *Calculus III.* Spring, PROFESSOR BAUDUIT.

Mathematics 28. *Solid Analytic Geometry.* Spring, PROFESSOR BAUDUIT.

Mathematics 29. *Differential Equations.* Winter, PROFESSOR BAUDUIT.

MECHANICAL ENGINEERING

Mechanical Engineering 1. *Forging* (Omitted in 1919-1920).

Mechanical Engineering 2. *Foundry* (Omitted in 1919-1920).

Mechanical Engineering 3 and 4. *Empirical Design.* Autumn and Winter.

Mechanical Engineering 5. *Kinematic Design.* Spring.

Mechanical Engineering 6 and 7. *Mechanism.* Autumn and Winter.

Mechanical Engineering 8 and 9. *Pattern Making.* Winter and Spring.

Mechanical Engineering 25. *Thermodynamics.* Spring.

Mechanical Engineering 26, 27, and 28. *Machine Design.* Autumn, Winter, and Spring.

Mechanical Engineering 29 and 30. *Machine Shop.* Autumn and Winter.

Mechanical Engineering 31. *Engineering Design.* Spring.

Mechanical Engineering 32 and 33. *Engineering Laboratory.* Winter and Spring.

MUSIC

See School of Music

PHYSIOGRAPHY

Physiography 1. *General Physiography.* Spring, PROFESSOR SCHUH.

PHILOSOPHY

Philosophy 1. *Introduction to Philosophy.* Autumn, ASSISTANT PROFESSOR LOCKE.

Philosophy 2. *Ethics.* Winter, ASSISTANT PROFESSOR LOCKE.

Philosophy 3. *Logic*. Autumn and Spring, ASSISTANT PROFESSOR LOCKE.

Philosophy 25. *Ancient and Mediaeval Philosophy*. Autumn and Winter ASSISTANT PROFESSOR LOCKE.

Philosophy 26. *Modern Philosophy*. Winter and Spring, ASSISTANT PROFESSOR LOCKE.

Philosophy 27. *Present Philosophical Tendencies*. Autumn, ASSISTANT PROFESSOR LOCKE.

Philosophy 28. *Practical Logic*. Winter, ASSISTANT PROFESSOR LOCKE.

Philosophy 29. *Social Philosophy*. Autumn, ASSISTANT PROFESSOR LOCKE.

Philosophy 30. *Aesthetics and Literary Criticism*. Winter, ASSISTANT PROFESSOR LOCKE.

Philosophy 31. *Aesthetics and Art Criticism*. Spring, ASSISTANT PROFESSOR LOCKE.

PHYSICAL EDUCATION

See School of General Service

PHYSICS

Physics 1. *Mechanics, Sound and Light*. Autumn and Spring, PROFESSOR COLEMAN.

Physics 2. *Electricity, Magnetism, and Light*. Winter, PROFESSOR COLEMAN.

Physics 25. *Advanced Theoretical and Experimental Physics*. Autumn and Spring, PROFESSOR COLEMAN AND MR. WEBSTER.

Physics 26. *Advanced Theoretical and Experimental Physics*. Winter, PROFESSOR COLEMAN AND MR. WEBSTER.

Physics 27. *Advanced Electricity and Magnetism*. Autumn, MR. WEBSTER.

Physics 28. *Advanced Electricity and Magnetism*. Winter, MR. WEBSTER.

Physics 29. *Advanced Light*. Autumn, PROFESSOR COLEMAN.

Physics 30. *Advanced Light*. Winter, PROFESSOR COLEMAN.

Physics 31. *Principles of Photography*. (Omitted in 1919-1920). PROFESSOR BROWN.

Physics 32. *Advanced Heat.* Winter, MR. WEBSTER.

Physics 33. *Theoretical Mechanics.* (Omitted in 1919-1920). PROFESSOR COLEMAN.

Physics 34. *Theoretical Mechanics.* (Omitted in 1919-1920). PROFESSOR COLEMAN.

Physics 35. *Wireless Telegraphy.* (Omitted in 1919-1920).. MR. WEBSTER.

POLITICAL SCIENCE AND GOVERNMENT

Political Science 1. *The Principles of Political Science.* Spring, PROFESSOR TUNNELL.

Political Science 25. *American Government.* Spring, ASSISTANT PROFESSOR WESLEY.

Political Science 26. *International Law.* Autumn, PROFESSOR COOK.

Political Science 27. *Municipal Government.* Autumn, PROFESSOR DYSON.

Political Science 28. *The Government of European Cities.* Winter, PROFESSOR DYSON.

Political Science 30. *History of Political Parties in the United States.* Spring, PROFESSOR DYSON.

Political Science 31. *The Elements of Law.* Spring, PROFESSOR TUNNELL.

Political Science 32. *Comparative Government.* Winter, PROFESSOR TUNNELL.

PSYCHOLOGY

Psychology 1. *Introductory Psychology.* Autumn and Winter, PROFESSOR HARVEY.

Psychology 2. *Experimental Psychology.* Spring, PROFESSOR HARVEY.

Psychology 3. *Abnormal Psychology.* Spring, PROFESSOR HARVEY.

Psychology 25. *Social Psychology.* Autumn, PROFESSOR HARVEY.

Psychology 26. *Educational Psychology.* Winter, PROFESSOR HARVEY.

Psychology 27. *Genetic Psychology.* Spring, PROFESSOR HARVEY.

Psychology 28. *Experimental Education.* Autumn, PROFESSOR HARVEY.

Psychology 29. *Psychology of School Subjects.* Winter, PROFESSOR HARVEY.

ROMANCE LANGUAGES

FRENCH

Romance 1. *Elementary French.* Autumn and Winter, ASSISTANT PROFESSOR LOCHARD AND MISS COOK.

Romance 2. *Elementary French.* Autumn and Winter, ASSISTANT PROFESSOR LOCHARD AND MISS COOK.

Romance 3. *Intermediate French.* Autumn, Winter, and Spring, ASSISTANT PROFESSOR LOCHARD AND MISS COOK.

Romance 4. *Intermediate French.* Autumn and Winter, ASSISTANT PROFESSOR LOCHARD AND MISS COOK.

Romance 5. *Advanced French.* Autumn, ASSISTANT PROFESSOR LOCHARD.

Romance 6. *Advanced French.* Winter, ASSISTANT PROFESSOR LOCHARD.

SPANISH

Romance 7. *Elementary Spanish.* Autumn, Winter, and Spring, MISS COOK.

Romance 8. *Commercial Spanish.* Winter and Spring, MISS COOK.

Romance 9. *Spanish Novels and Dramas.* Winter and Spring, MISS COOK.

Romance 10. *Spanish Literature.* Spring, MISS COOK.

ITALIAN

Romance 25. *Elementary Italian.* Autumn, PROFESSOR WILLIAMS.

Romance 26. *Italian Literature.* Winter, PROFESSOR WILLIAMS.

Romance 27. *Dante.* Spring, PROFESSOR WILLIAMS.

FRENCH

Romance 28. *French Literature to the Nineteenth Century.* Autumn, ASSISTANT PROFESSOR LOCHARD.

Romance 29. *French Literature from the Beginning of the Nineteenth Century to the Present Time.* Winter, ASSISTANT PROFESSOR LOCHARD.

Romance 30. *Journalistic French*. Spring, ASSISTANT PROFESSOR LOCHARD.

SOCIOLOGY

Sociology 25. *Principles of Sociology*. Autumn, PROFESSOR MILLER.

Sociology 26. *Practical Sociology*. Winter, PROFESSOR MILLER.

Sociology 27. *Labor Problems*. Winter, PROFESSOR MILLER.

Sociology 28. *Race Problems*. Autumn, PROFESSOR MILLER.

Sociology 29. *Social Pathology and Theories of Social Reconstruction*. Winter, PROFESSOR PRATT.

Sociology 30. *The History of the Family*. Spring, ASSOCIATE PROFESSOR MCLEAR.

Attention is called to the following course offered in the School of Religion by Professor Pratt:

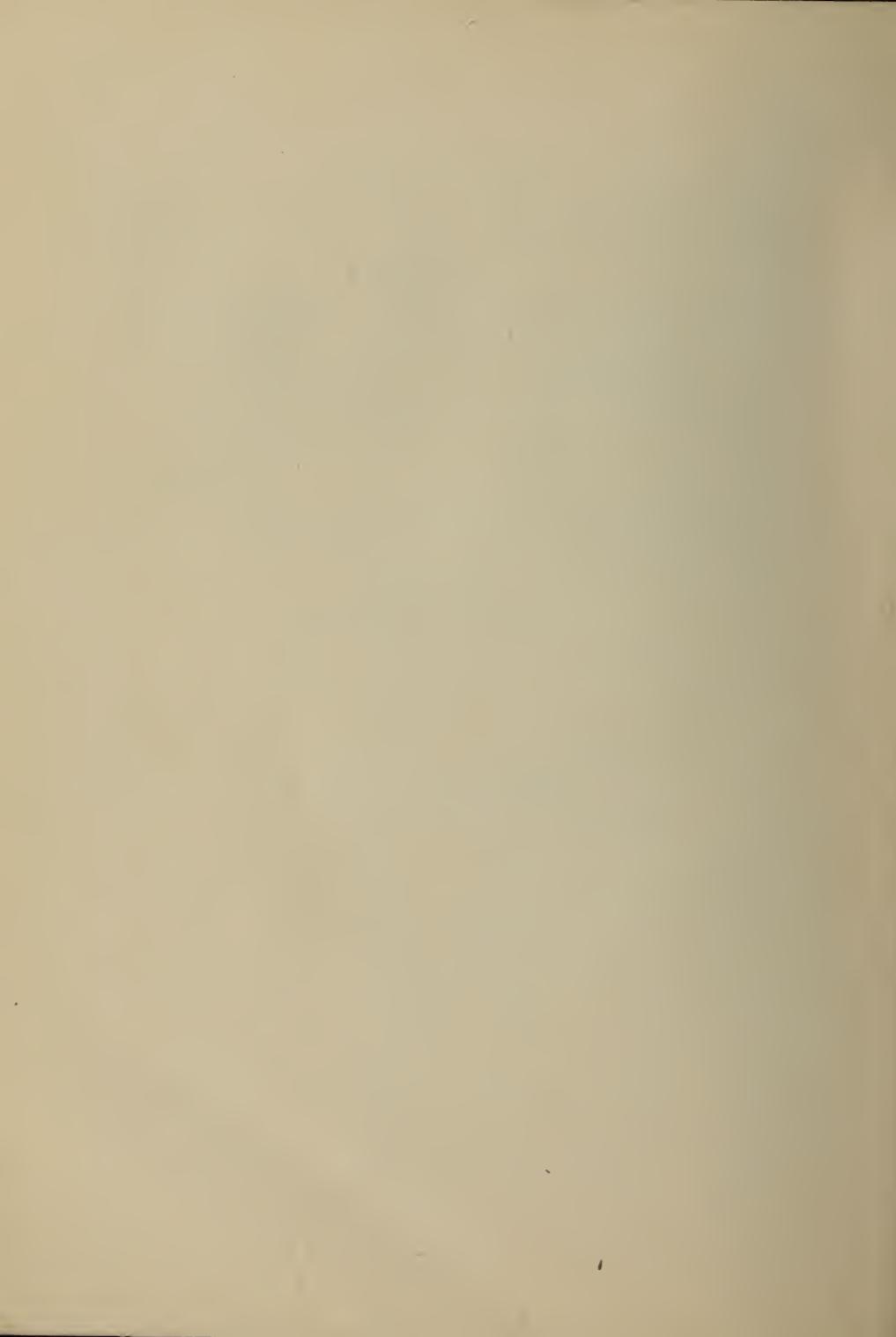
Sociology 31. *Social Survey Methods and Practical Field Work*.

SPANISH

See Romance Languages

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